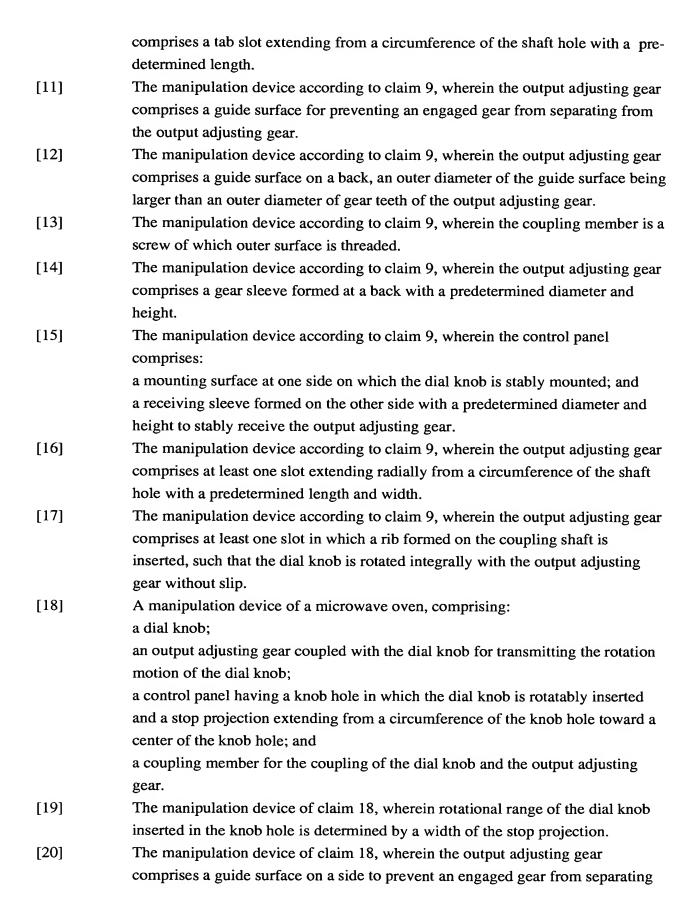
WO 2005/078351 PCT/KR2005/000197

Claims

[1] A manipulation device of a microwave oven, comprising: a control panel; a dial knob stably mounted on the control panel, the dial knob including a coupling shaft formed at a center portion with a predetermined length and at least one guide rib formed on an outer surface of the coupling shaft; and an output adjusting gear coupled with the dial knob. [2] The manipulation device according to claim 1, wherein the control panel comprises a recessed portion on which the dial knob is mounted. [3] The manipulation device according to claim 1, wherein the control panel comprises a knob hole at a predetermined location in which the dial knob is inserted for the stable mounting. [4] The manipulation device according to claim 3, wherein the control panel further comprises a stop projection protruded from a circumference of the knob hole toward a center of the knob hole to restrict a movement of the dial knob within a predetermined range. The manipulation device according to claim 1, wherein a coupling member is [5] inserted at an end of the coupling shaft to fix the output adjusting gear to the dial knob. [6] The manipulation device according to claim 1, wherein the coupling shaft comprises a hole at a leading end with a predetermined depth, for receiving a coupling member. [7] The manipulation device according to claim 1, wherein the guide rib comprises a coupling tab protruded from a leading end with a predetermined width and height. [8] The manipulation device according to claim 1, wherein the guide rib comprises a reinforcement rib formed at one side with a predetermined width and length. [9] A manipulation device of a microwave oven, comprising: a dial knob; a coupling shaft extending from a center of the dial knob with a predetermined length; an output adjusting gear having a shaft hole in which the coupling shaft is inserted; a control panel in which the dial knob is rotatably inserted; and a coupling member fixing the output adjusting gear to the dial knob, for an integral rotation of the output adjusting gear with the dial knob. The manipulation device according to claim 9, wherein the output adjusting gear [10]

WO 2005/078351 PCT/KR2005/000197



WO 2005/078351 PCT/KR2005/000197

from the output adjusting gear.